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NOTICE OF ALLOWANCE AND FEE(S) DUE

23338 7590 07/15/2009
DENNISON, SCHULTZ & MACDONALD
1727 KING STREET
SUITE 105

ALEXANDRIA, VA 22314

EXAMINER
PATEL, DEVANG R
ART UNIT PAPER NUMBER

DATE MAILED: 07/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,013	07/13/2006	Jost Eberach	06043	5997	
TITLE OF INVENTION: METHOD FOR WELDING CONDUCTORS					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence including d below or directed oth ions.	or transmitting the ISS of the Patent, advance of herwise in Block 1, by (UE FEE and PUBLICAT orders and notification of a) specifying a new corre				
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				te: A certificate of (s) Transmittal. Thi ers. Each additional e its own certificate	mailing can or s certificate ca l paper, such a of mailing or t	nly be used for nnot be used for s an assignmer ransmission.	domestic mailings of the r any other accompanying t or formal drawing, must
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DENNISON, SCHULTZ & MACDONALD 1727 KING STREET SUITE 105				I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
ALEXANDRIA,	VA 22314						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	D INVENTOR ATTORNEY DOCKET NO. CONFIS		CONFIRMATION NO.	
10/577,013	07/13/2006		Jost Eberach		060	43	5997
TITLE OF INVENTION:							
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/15/2009
EXAMI	NER	ART UNIT	CLASS-SUBCLASS				
PATEL, DE	VANG R	1793	228-110100				
"Fee Address" indi- PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ess an assignee is identi i in 37 CFR 3.11. Comp	" Indication form ed. Use of a Customer A TO BE PRINTED ON	(I) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atte listed, no name will be THE PATENT (print or ty data will appear on the p IT a substitute for filing an	wely, le firm (having as a agent) and the name rmeys or agents. If o printed. pe) patent. If an assigna assignment.	member a es of up to no name is	3	cument has been filed for
Please check the appropriate. The following fee(s) a	ate assignee category or		b. Payment of Fee(s): (Ple	Individual 🗖 Co	rporation or ot		up entity
☐ Issue Fee ☐ A check is enclosed. ☐ Publication Fee (No small entity discount permitted) ☐ Payment by credit card. Form PTO-2038 is attached.							
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			The Director is hereb overpayment, to Depi	y authorized to char	ge the required	fee(s), any def (enclose an	iciency, or credit any extra copy of this form).
	SMALL ENTITY statu	is. See 37 CFR I.27.	☐ b. Applicant is no lor				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademari	ed from anyone other than k Office.	the applicant; a regi	stered attorney	or agent; or the	assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N			
This collection of informs an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but reginia 22313-1450. DC (3-1450.	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var- rden, should be sent to the O NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es y depending upon the indi- the Chief Information Offic COMPLETED FORMS T	retain a benefit by the timated to take 12 revidual case. Any coer, U.S. Patent and THIS ADDRESS	ne public which ninutes to com mments on the Trademark Off SEND TO: C	n is to file (and plete, including amount of tin ice, U.S. Depa ommissioner f	by the USPTO to process) gathering, preparing, and the you require to complete timent of Commerce, P.O. or Patents, P.O. Box 1450,

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DENNISON, SC	HULTZ & MACDO	PATEL, D	EVANG R	
1727 KING STREET			ART UNIT	PAPER NUMBER
SUITE 105 ALEXANDRIA, VA 22314			1793 DATE MAII ED: 07/15/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 267 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 267 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)		
10/577,013	EBERACH, JOST		
Examiner	Art Unit		
DEVANG PATEL	1793		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 5/5/09.
- 2. The allowed claim(s) is/are 14-28.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1.
 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. ____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - The lattice of 2) to Paper No./Mail Date _____.

 (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08),
 Paper No./Mail Date
- Paper No./Mail Date _____.

 7. X Examiner's Amendment/Comment
 - Examiner's Statement of Reasons for Allowance

Notice of Informal Patent Application
 Information (PTO-413)

9. ☐ Other .

/Jessica L. Ward/

Supervisory Patent Examiner, Art Unit 1793

Examiner, Art Unit 1793

/Devang Patel/

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Art Unit: 1793

EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ira J. Schultz on 7/8/09.

The application has been amended as follows:

In claim 19, line 17, after "the second elements" insert --within the decomoressed chamber--.

In claim 19, line 19, "after" has been replaced with --resulting from--.

2. The following is an examiner's statement of reasons for allowance: Prior art fails to disclose applying further ultrasound to the welded conductors within the decompressed chamber, and measuring a characteristic magnitude of the chamber resulting from said applying further ultrasound to determine weld quality. Wagenbach et al. (DE 44298684 A1) discloses measuring characteristic magnitude of the chamber after welding, but does not disclose decompressing the chamber and then applying ultrasound as claimed. Patrikios et al. (US 6070777) discloses measuring compression weld zone size by measuring height/width of the chamber, but also fails to disclose decompressing the chamber and then applying ultrasound as claimed. Patrikios merely calculates the ultrasonic weld parameters (energy, amplitude, pressure) based on the

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Art Unit: 1793

weld zone size. Deutsch (US 3410983) teaches determining the quality of the weld by applying second pulses of ultrasonic energy to the workpiece after welding. However, the ultrasonic test method of Deutsch does not relate to any magnitude of the decompressed chamber. Moreover, no suggestion/motivation was found for one of ordinary skill in the art at the time of the invention to apply further ultrasound as claimed since further ultrasound after welding tends to weaken the strength of the weld.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 14-28 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEVANG PATEL whose telephone number is (571)270-3636. The examiner can normally be reached on Monday thru Thursday, 8:00 am to 5:30 pm, EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jessica Ward can be reached on 571-272-1223. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devang Patel/

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Art Unit: 1793

Examiner, Art Unit 1793

/Jessica L. Ward/

Supervisory Patent Examiner, Art Unit 1793